



SVC MANUAL (Exploded View)

LG Air Conditioner

ENGLISH

FRANÇAIS

MODEL

ZTNR24GPLA0 [KNSCB241A]

ZTNR30GMLA0 [KNSCB301A]

ZTNR36GMLA0 [KNSCB361A]

ZTNR42GMLA0 [KNSCB421A]

ZTNR48GMLA0 [KNSCB481A]

Cassette Air Conditioner

P/No.: MFL67730603

Rev.03_051525

www.lg.com

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This manual may contain images or content different from the model you purchased.

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1. SPECIFICATION

Indoor

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Model Name				ZTNR24GPLA0 [KNSCB241A]	ZTNR30GMLA0 (KNSCB301A)	ZTNR36GMLA0 (KNSCB361A)
Power Supply			V, Phase, Hz	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
Dimensions	Body	W x H x D	mm	840 x 204 x 840	840 x 288 x 840	840 x 288 x 840
		W x H x D	inch	33-1/16 x 8-1/32 x 33-1/16	33-1/16 x 11-11/32 x 33-1/16	33-1/16 x 11-11/32 x 33-1/16
Net Weight	Body		kg(lbs)	20.8 (45.9)	25.6 (56.4)	25.6 (56.4)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 8 x 19) x 1	(3 x 12 x 21) x 1	(3 x 12 x 21) x 1
	Face Area		m² (ft²)	0.345 (3.71)	0.49 (5.27)	0.49 (5.27)
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
	Air Flow Rate	H / M / L	m³/min	19 / 17 / 15	23.8 / 21.4 / 19	27.5 / 25 / 22.5
		H / M / L	ft³/min	671 / 600 / 530	840 / 755 / 670	971 / 883 / 794
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W x No.	50 x 1	136 x 1	136 x 1
	Power Input		W x No.	-	-	-
	Running Current		A	0.249 x 1	0.66 x 1	0.66 x 1
Dehumidification Rate				1.8 (3.8)	3.4 (7.1)	3.4 (7.1)
Sound Pressure Level		H / M / L	dB(A)	40 / 37 / 35	42 / 41 / 40	44 / 42 / 41
Sound Power Level	Cooling	H / M / L	dB(A)	-	-	-
Piping Connections	Liquid		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm(inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain (O.D. / I.D.)		mm	Ø 32.0 / 25.4	Ø 32.0 / 25.4	Ø 32.0 / 25.4
Safety Devices			-	Fuse	Fuse	Fuse
Power and Communication Cable (included Earth)		No. X mm² (AWG)		3C x 0.82 (18) / 2C x 0.82 (18)	3C x 0.82 (18) / 2C x 0.82 (18)	3C x 0.82 (18) / 2C x 0.82 (18)
Decoration Panel	Model Name		-	PT-AAGW0	PT-AAGW0	PT-AAGW0
	Casing color		-	White	White	White
	Dimensions	W x H x D	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
		W x H x D	inch	37-13/32 x 1-3/8 x 37-13/32	37-13/32 x 1-3/8 x 37-13/32	37-13/32 x 1-3/8 x 37-13/32
Net Weight			kg (lbs)	7.1 (15.7)	7.1 (15.7)	7.1 (15.7)

NOTE

1. All data are based on the following conditions:

Cooling Temperature
 - Indoor 26.7°C(80°F) DB / 19.4°(67°F) WB
 - Outdoor 35°C(95°F) DB / 23.9°C(75°F) WBHeating Temperature
 - Indoor 21.1°C(70°F) DB / 15.6°C(60°F) WB
 - Outdoor 8.3°C(47°F) DB / 6.1°C(43°F) WBPiping Length
 - Interconnected Pipe Length = 7.5mDifference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
2. Wiring cable size must comply with the applicable local and national code.
3. Due to our policy of innovation some specifications may be changed without notification.
4. Sound Level Values are measured at Anechoic chamber.

Therefore, these values can be increased(maximum 3dB(A)) owing to ambient conditions during operation.

Conversion formula
kW = Btu/h x 0.0002931
cfm = CMM x 35.3

Model Name				ZTNR42GMLA0 (KNSCB421A)	ZTNR48GMLA0 (KNSCB481A)
Power Supply			V, Phase, Hz	208/230, 1, 60	208/230, 1, 60
Dimensions	Body	W x H x D	mm	840 x 288 x 840	840 x 288 x 840
		W x H x D	inch	33-1/16 x 11-11/32 x 33-1/16	33-1/16 x 11-11/32 x 33-1/16
Net Weight	Body		kg(lbs)	27.3 (60.2)	27.3 (60.2)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(3 x 18 x 22) x 1	(3 x 18 x 22) x 1
	Face Area		m ² (ft ²)	0.53 (5.71)	0.53 (5.71)
Fan	Type		-	Turbo Fan	Turbo Fan
	Air Flow Rate	H / M / L	m ³ /min	32 / 27 / 23	32 / 27 / 23
		H / M / L	ft ³ /min	1130 / 953 / 812	1130 / 953 / 812
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	166 x 1	166 x 1
	Power Input		W x No.	-	-
	Running Current		A	0.69 x 1	0.69 x 1
Dehumidification Rate				4.6 (9.74)	4.6 (9.74)
Sound Pressure Level		H / M / L	dB(A)	46 / 43 / 41	46 / 43 / 41
Sound Power Level	Cooling	H / M / L	dB(A)	-	-
Piping Connections	Liquid		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm(inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain (O.D. / I.D.)		mm	Ø 32.0 / 25.4	Ø 32.0 / 25.4
Safety Devices			-	Fuse	Fuse
Power and Communication Cable (included Earth)		No. X mm ² (AWG)		3C x 0.82 (18) / 2C x 0.82 (18)	3C x 0.82 (18) / 2C x 0.82 (18)
Decoration Panel	Model Name		-	PT-AAGW0	PT-AAGW0
	Casing color		-	White	White
	Dimensions	W x H x D	mm	950 x 35 x 950	950 x 35 x 950
		W x H x D	inch	37-13/32 x 1-3/8 x 37-13/32	37-13/32 x 1-3/8 x 37-13/32
Net Weight			kg (lbs)	7.1 (15.7)	7.1 (15.7)

NOTE

1. All data are based on the following conditions:

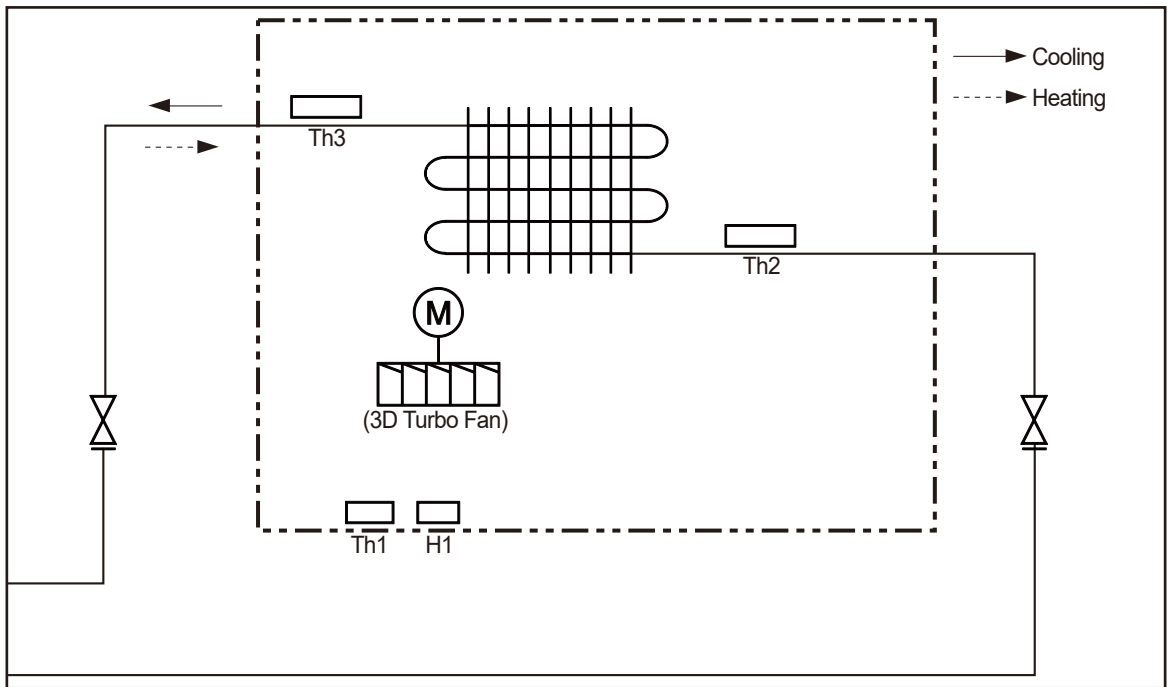
Cooling Temperature
 - Indoor 26.7°C(80°F) DB / 19.4°(67°F) WB
 - Outdoor 35°C(95°F) DB / 23.9°C(75°F) WBHeating Temperature
 - Indoor 21.1°C(70°F) DB / 15.6°C(60°F) WB
 - Outdoor 8.3°C(47°F) DB / 6.1°C(43°F) WBPiping Length
 - Interconnected Pipe Length = 7.5mDifference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
2. Wiring cable size must comply with the applicable local and national code.
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4. Sound Level Values are measured at Anechoic chamber.

Therefore, these values can be increased(maximum 3dB(A)) owing to ambient conditions during operation.

Conversion formula

kW = Btu/h x 0.0002931
cfm = CMM x 35.3

2. PIPING DIAGRAMS

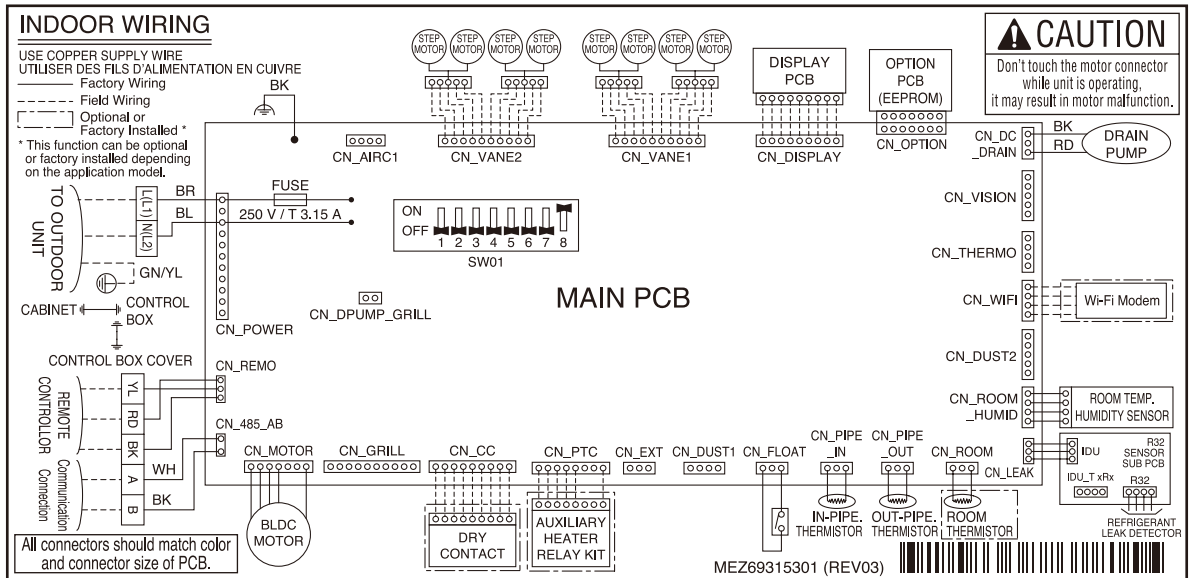


LOC.	Description	PCB Connector
Th1	Thermistor for Indoor air temperature	CN_ROOM
Th2	Thermistor for evaporator inlet temperature	CN_PIPE_IN
Th3	Thermistor for evaporator outlet temperature	CN_PIPE_OUT
H1	Thermistor for room air temperature with humidity	CN_ROOM_HUMID

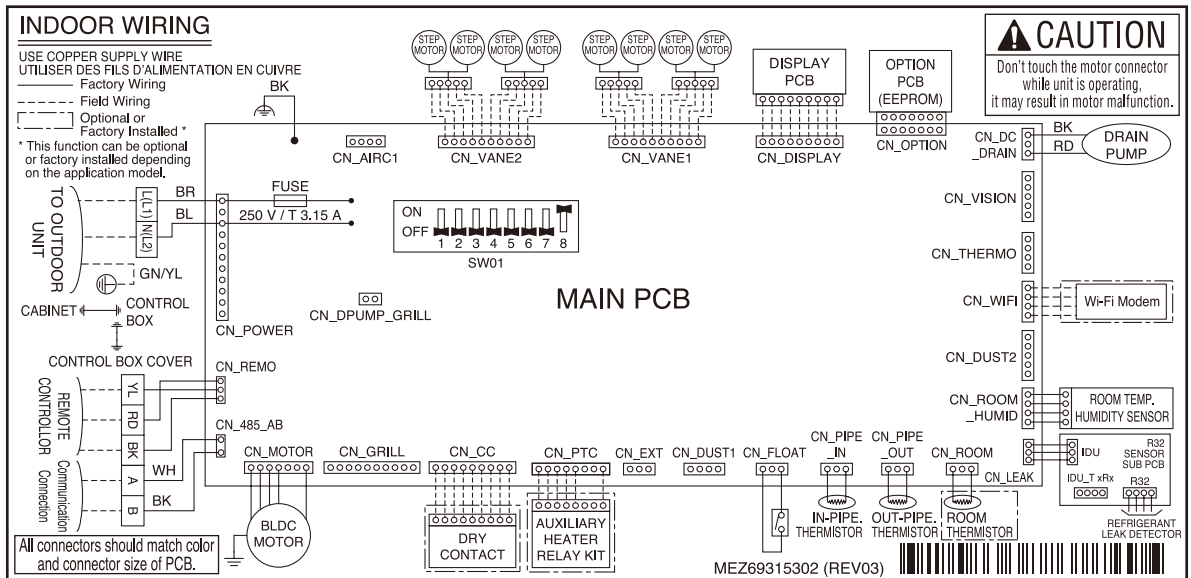
* Depending on the model, there are cases that there is only H1 without Th1.

3. WIRING DIAGRAM

Models: ZTNR24GPLA0 [KNSCB241A], ZTNR30GMLA0 [KNSCB301A], ZTNR36GMLA0 [KNSCB361A]

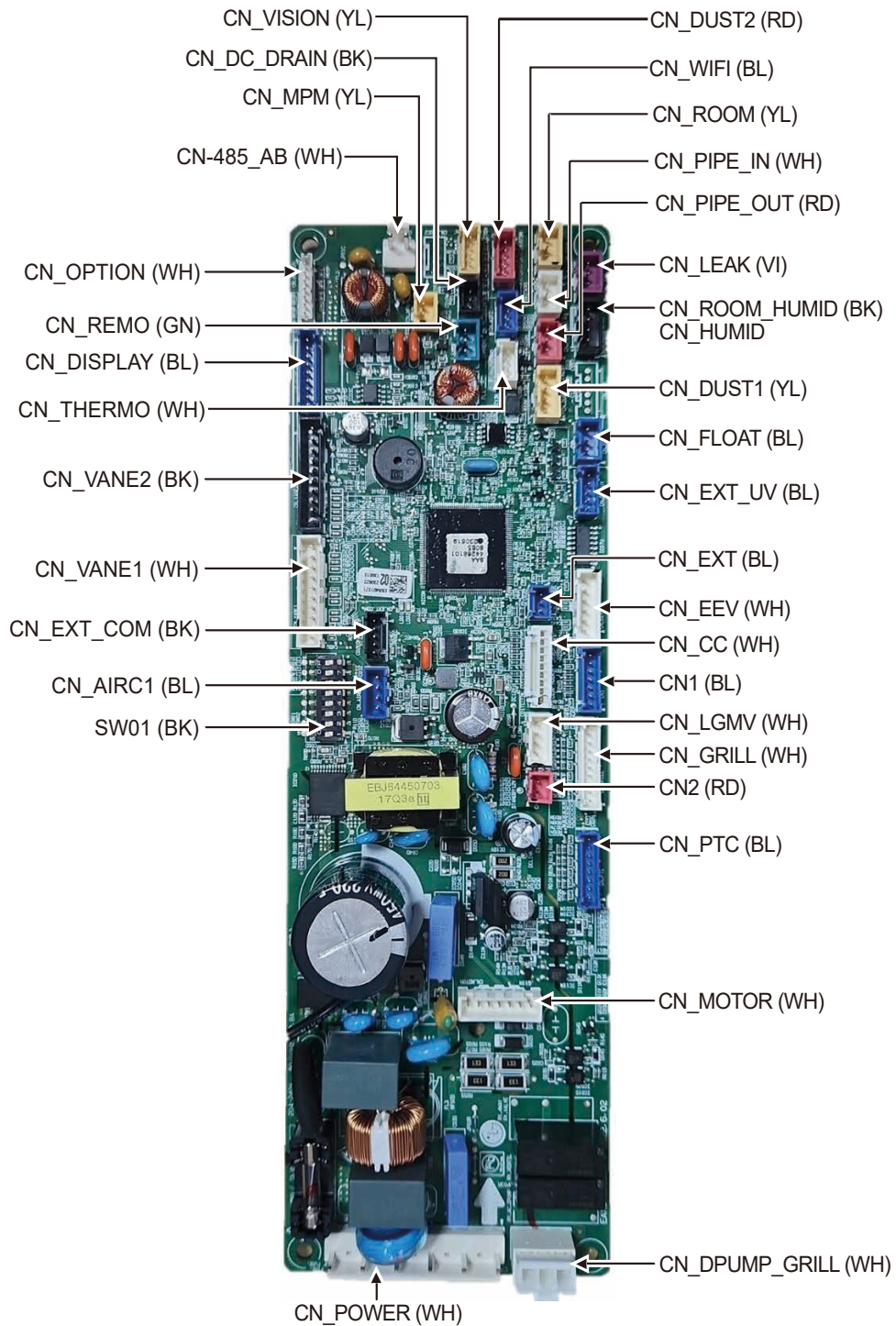


Models: ZTNR42GMLA0 [KNSCB421A], ZTNR48GMLA0 [KNSCB481A]



PCB

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4. EXPLODED VIEW

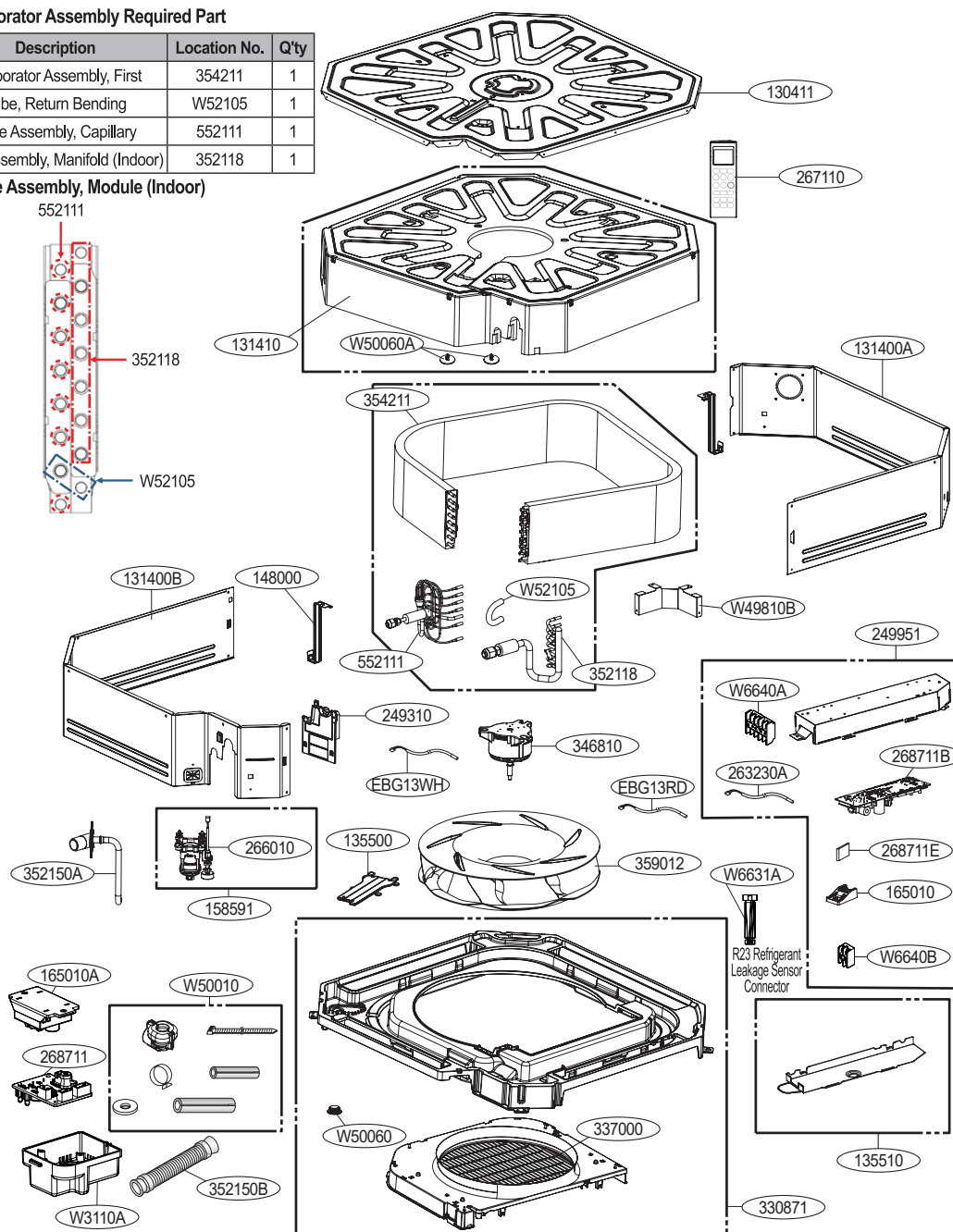
Indoor Unit

Models : ZTNR24GPLA0[KNSCB241A]

● Evaporator Assembly Required Part

Description	Location No.	Q'ty
Evaporator Assembly, First	354211	1
Tube, Return Bending	W52105	1
Tube Assembly, Capillary	552111	1
Tube Assembly, Manifold (Indoor)	352118	1

● Cycle Assembly, Module (Indoor)



Location No.	Description	Sensor Information	Housing Color
263230A	Th1 (CN_ROOM)	Air-Inlet	Yellow
EBG13WH	Th2 (CN_PIPE_IN)	Eva-in	White
EBG13RD	Th3 (CN_PIPE_OUT)	Eva-out	Red
165010	H1 (CN_ROOM_HUMID)	Air-inlet and Humidity	Black

* Depending on the model, there are cases that there is only H1 without Th1.

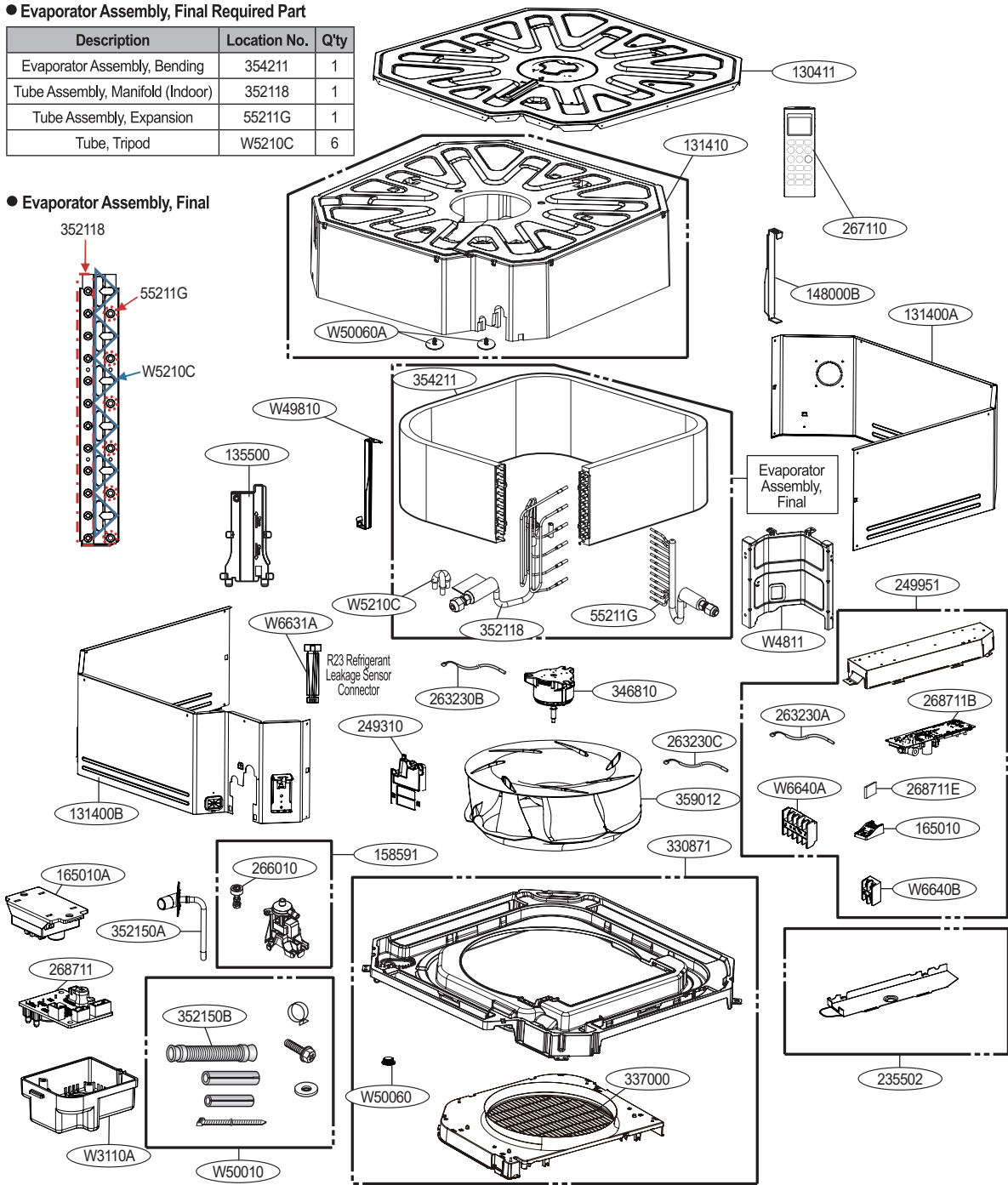
Indoor Unit

Models : ZTNR30GMLA0[KNSCB301A], ZTNR36GMLA0[KNSCB361A]

● Evaporator Assembly, Final Required Part

Description	Location No.	Q'ty
Evaporator Assembly, Bending	354211	1
Tube Assembly, Manifold (Indoor)	352118	1
Tube Assembly, Expansion	55211G	1
Tube, Tripod	W5210C	6

● Evaporator Assembly, Final



Location No.	Description	Sensor Information	Housing Color
263230A	Th1 (CN_ROOM)	Air-Inlet	Yellow
263230B	Th2 (CN_PIPE_IN)	Eva-in	White
263230C	Th3 (CN_PIPE_OUT)	Eva-out	Red
165010	H1 (CN_ROOM_HUMID)	Air-inlet and Humidity	Black

* Depending on the model, there are cases that there is only H1 without Th1.

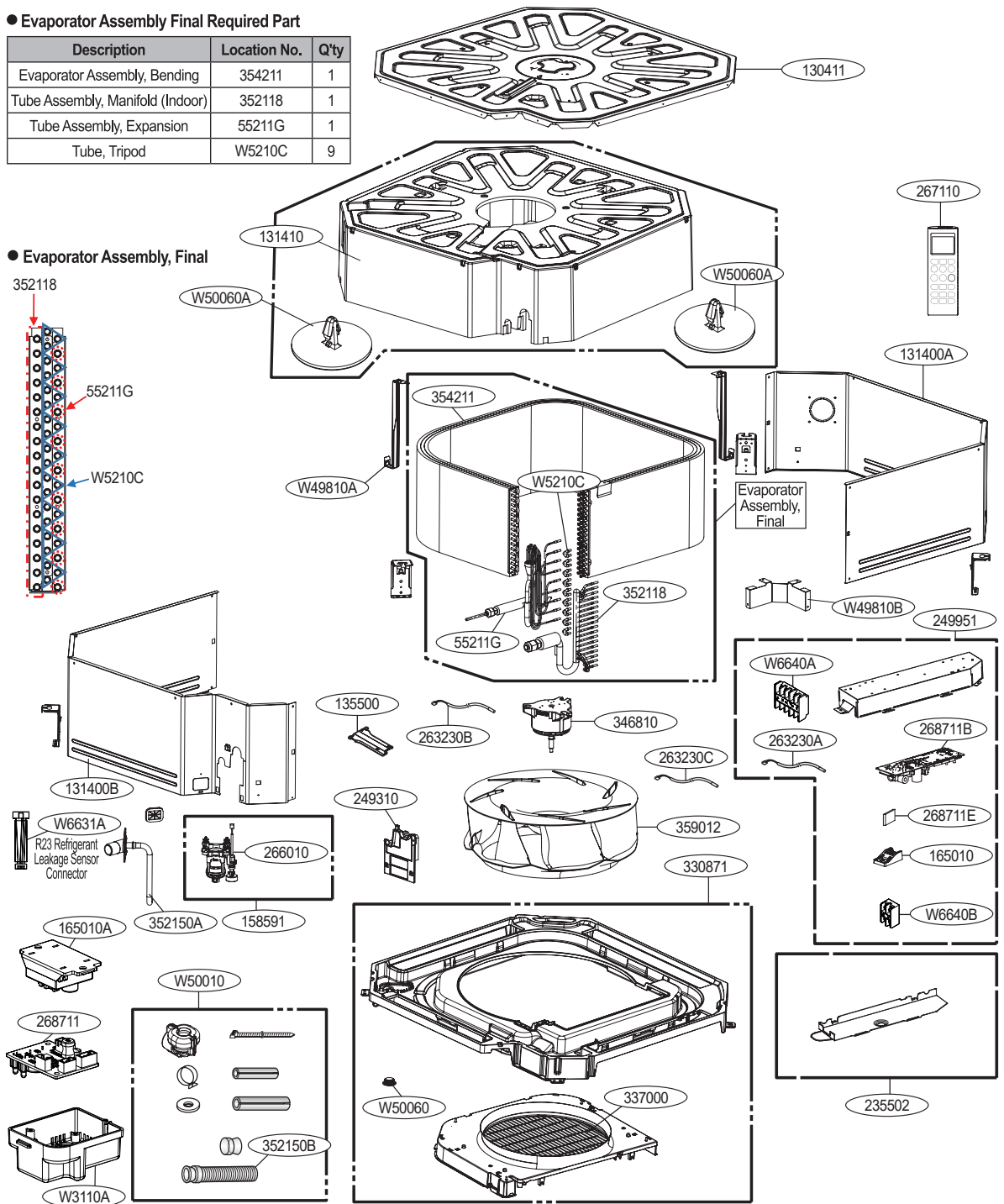
Indoor Unit

Models : ZTNR42GMLA0[KNSCB421A], ZTNR48GMLA0[KNSCB481A]

● Evaporator Assembly Final Required Part

Description	Location No.	Q'ty
Evaporator Assembly, Bending	354211	1
Tube Assembly, Manifold (Indoor)	352118	1
Tube Assembly, Expansion	55211G	1
Tube, Tripod	W5210C	9

● Evaporator Assembly, Final



Location No.	Description	Sensor Information	Housing Color
263230A	Th1 (CN_ROOM)	Air-Inlet	Yellow
263230B	Th2 (CN_PIPE_IN)	Eva-in	White
263230C	Th3 (CN_PIPE_OUT)	Eva-out	Red
165010	H1 (CN_ROOM_HUMID)	Air-inlet and Humidity	Black

* Depending on the model, there are cases that there is only H1 without Th1.

Front Panel
Models : PT-AAGW0

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